

PTO-1449 (Modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 00479.77772	SERIAL NUMBER 09/317,124
	APPLICANT Daniel E. Hinton, et al.	
	FILING DATE 5/24/99	GROUP ART UNIT 2766

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
KRZ	5,048,086	9/10/91	Bianco et al.	380	28	
KRZ	5,245,660	9/14/93	Pecora et al.	380	48	
KRZ	5,291,555	3/1/94	Cuomo et al.	380	6	
KRZ	5,379,346	1/3/95	Pecora et al.	380	48	
KRZ	5,402,334	3/28/95	Pecora et al.	364	158	
KRZ	5,432,697	1/11/95	Hayes	364	158	
KRZ	5,473,694	12/5/95	Carroll et al.	380	48	
KRZ	5,655,022	8/5/97	Carroll	380	48	
KRZ	5,680,462	10/21/97	Miller et al.	380	48	

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	KENNEDY: "Experimental Chaos Via Chua's Circuit: Electronics Research Laboratory, pages 340-351
KRZ	PEREZ, YU, KOWALSKI, ALBERT, LITTLER, and SONG: "Synchronization of Chaos In Coupled Tunnel Diode Relaxation Oscillators" Department of Physics, University of North Texas, pages 327-332
KRZ	BAU and SINGER: "Controlling a Chaotic System" Department of Mechanical Engineering and Applied Mechanics, University of Pennsylvania, pages 145-151
KRZ	HAYES (U.S. Army Research Laboratory), GREBOGI and OTT (University of Maryland): "Communication with Chaos" December 1992, pages 385-388
KRZ	EWEDA: "Comparison of RLS, LMS, and Sign Algorithms for Tracking Randomly Time-Varying Channels" Senior Member, IEEE Transactions on Signal Processing, vol. 42, no. 11, November 1994, pages 2937-2944
KRZ	HAYKIN and LI: "Detection of Signals in Chaos" Proceedings Of The IEEE, vol. 83, no. 1, January 1995, pages 95-122
KRZ	DELGADO-RESTITUTO, LOPEZ de AHUMEDA and RODRIQUEZ-VAZQUEZ: "Secure Communications through Switched-Current Chaotic Circuits" Department of Analog Design, Spain, IEEE, February 1995, pages 2237-2240
KRZ	CARROLL: "Communication With Use of Filtered, Synchronized, Chaotic Signals" US Government Work, IEEE Transactions On Circuits and Systems, Fundamental Theory and Applications, vol. 42, no. 3, March 1995, pages 105-110
KRZ	KOCAREV (Faculty of Electrical Engineering, Cyril and Methodius University) and ROSKA (Computer and Automation Institute of the Hungarian Academy of Sciences): "Dynamics Of The Lorenz Equation And Chua's Equation: A Tutorial" Chua's Circuit, A Paradigm For Chaos (1993), pages 25-55

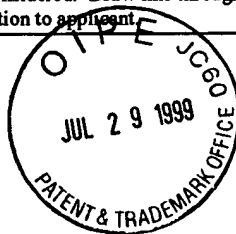
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WZ	MADAN (Office of Naval Research) and WU (Electronics Research Laboratory and Department of Electrical Engineering and Computer Sciences, University of California): "Introduction To Experimental Chaos Using Chua's Circuit" Chua's Circuit, A Paradigm For Chaos (1993), pages 59-89
WZ	KOCAREV, HALLE, ECKERT, CHUA (Department of Electrical Engineering and Computer Science, University of California) and PARLITZ (Germany): "Experimental Demonstration Of Secure Communications Via Chaotic Synchronization" Chua's Circuit, A Paradigm For Chaos (1993), pages 371-378
WZ	HALLE, WU, ITOH (Nagasaki University, Japan) and CHUA (Electronics Research Laboratory and Department of Electrical Engineering and Computer Sciences, University of California): "Spread Spectrum Communication Through Modulation Of Chaos In Chua's Circuit" Chua's Circuit, A Paradigm For Chaos (1993), pages 379-394
WZ	PARLITZ (Germany), CHUA, KOCAREV, HALLE and SHANG (Department of Electrical and Computer Sciences, University of California): "Transmission of Digital Signals By Chaotic Synchronization" Chua's Circuit, A Paradigm For Chaos (1993), 395-403
WZ	RODET IRCAM and Center for New Music and Audio Technologies, University of California, Music Department: "Sound and Music From Chua's Circuit" Chua's Circuit, A Paradigm For Chaos (1993), pages 434-446
WZ	JOHNSON, TIGNER and HUNT (Department of Physics and Astronomy, Condensed Matter and Surface Science Program, Ohio University): "Controlling Chaos In Chua's Circuit" Chua's Circuit, A Paradigm For Chaos (1993), pages 449-457
WZ	KENNEDY (Department of Electronic and Electrical Engineering, University College Dublin), WU (Electronics Research Laboratory, University of California), PAU (Department of Electrical Engineering, Stanford University) and TOW (AT&T Bell Laboratories): "Digital Signal Processor-Based Investigation of Chua's Circuit Family" Chua's Circuit, A Paradigm For Chaos (1993), pages 769-792
WZ	NASSER, HOSNY and SOBHY (University of Kent Canterbury, Electronics Laboratories): "Maximum Dynamic Range of Bifurcations of Chua's Circuit" Chua's Circuit, A Paradigm For Chaos (1993), pages 821-831
WZ	LEUNG (Surface Radar Section, Defence Research Establishment Ottawa, Canada) and LAM (Department of Physics, University of Ottawa, Canada) "Receiver Design for Chaotic Modulation System Using Adaptive Filters" SPIE, vol. 2612, pages 126-135
WZ	Table of Contents from book (1993) entitled "Chua's Circuit: A Paradigm for Chaos."
WZ	Co-pending U.S. Application Serial No. 09/116,661 filed on 7/17/98 to Daniel E. Hinton, et al., from which this application claims priority under 35 U.S.C. § 120.

EXAMINER	<i>[Signature]</i>	DATE CONSIDERED	07/11/03
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	APPLICANT Daniel E. Hinton, et al.	
	FILING DATE 5/24/99	GROUP ART UNIT 2767

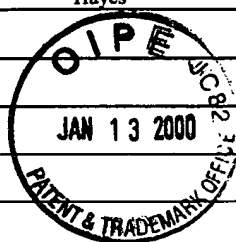
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
KWZ	5,291,555	3/1/94	Cuomo et al.	380	6	12/14/92
KWZ	5,432,697	7/11/95	Hayes	364	158	4/23/93



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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

KWZ	CUOMO and OPPENHEIM: "Chaotic Signals And Systems For Communications" 1993 IEEE International Conference on Acoustics, Speech, and Signal Processing, 27-30 April 1993, pages 137-140
KWZ	YANG and CHUA: "Secure Communication via Chaotic Parameter Modulation" IEEE Transactions On Circuits and Systems I: Fundamental Theory and Applications, vol. 43, no. 9, September 1996, pages 817-819
KWZ	PARLITZ and KOCAREV: "Multichannel Communication Using Autosynchronization" International Journal of Bifurcation and Chaos In Applied Sciences and Engineering, vol. 6, no. 3, March 1996, pages 581-588
KWZ	CARROLL and PECORA: "Using Multiple Attractor Chaotic Systems For Communication" Chaos, vol. 9, no. 2, June 1999, pages 445-451

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	APPLICANT Daniel E. Hinton, Sr., et al.	
	FILING DATE May 24, 1999	GROUP PART UNIT 2767

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
KZ	5,291,555	3/1/94	Cuomo et al.	380	6	12/14/92
KZ	6,064,701	5/16/00	Tresser et al.	375	285	7/3/99

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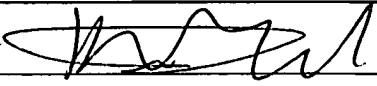
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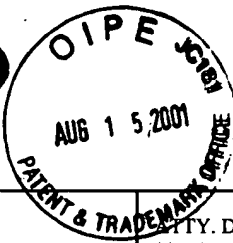
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KZ	PINKNEY et al.: "Chaos shift keying communications system using self-synchronising Chua oscillators", Electronic Letters, vol. 31, no. 13, 6/22/95, pages 1021-1022
KZ	YANG and CHUA: "Secure Communication via Chaotic Parameter Modulation", IEEE Transactions on Circuits and Systems, vol. 43, no. 9, September 1996, pages 817-819
KZ	KOH and USHIO: "Digital communication method based on M-synchronized chaotic systems" IEEE Transactions on Circuits and Systems, vol. 44, no. 5, May 1997, pages 383-390
KZ	CARROLL and JOHNSON: "Synchronizing Autonomous Chaotic Circuits Using Bandpass Filtered Signals", IEEE, 1998, pages 558-561

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Sheet 1 of 1

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## U.S. PATENT DOCUMENTS


EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
K52	5,857,165	01/05/1999	Corron et al.			

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IDS w/1449 form filed: August 15, 2001